

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

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PATENT NO. : 7412280 B2

APPLICATION NO.: 10/611,296

ISSUE DATE : August 12, 2008

INVENTOR(S) : Sarah Rose Hertel

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

11. A computer-readable medium in accordance with Claim 10 wherein to obtain the PET image the program is configured to obtain the PET image containing the abnormality using a PET scanner within a short amount of time after obtaining the CT image.
12. A computer-readable medium in accordance with Claim 10 wherein to select the first region of interest the program is configured to wait for a user to select the first region of interest located within the CT image.
13. A computer-readable medium in accordance with Claim 10 wherein to determine the relative metabolic activity the program is configured to determine a relative metabolic activity based in part on the anatomical size of the first region of interest.
14. A computer-readable medium in accordance with Claim 10 wherein to determine the relative metabolic activity the program is configured to distinguish metabolic activity within the second region of interest from background metabolic activity.
15. A computer-readable medium in accordance with Claim 10 wherein to determine the relative metabolic activity the program is configured to determine whether the metabolic activity within the second region of interest has a likelihood of being related to the abnormality.
16. A computer-readable medium in accordance with Claim 10 wherein to determine the anatomical size the program is configured to determine at least one of an area of the first region of interest and a volume of the first region of interest.

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18. An imaging system for analyzing at least one abnormality of an object, the imaging system comprising:
a radiation source;
a radiation detector; and
a controller operationally coupled to the radiation source and the radiation detector, the controller configured to:
obtain a first image containing an abnormality by performing a computed tomography (CT) scan of an object;
obtain a second image containing the abnormality by performing a positron emission tomography (PET) scan of the object;
select a first region of interest located within the first image;
determine an anatomical size of the abnormality based on the first region of interest in the first image; and
determine a relative metabolic activity based on a second region of interest located on the second image; and
determine a specific metabolic activity within the first region of interest of the first image by mathematically interpolating the relative metabolic activity within the second region of interest of the second image based on the anatomical size of the first region of interest of the first image, wherein the determined specific metabolic activity is at least one of stored and displayed.
19. An imaging system in accordance with Claim 20 wherein to obtain the second image the controller is configured to obtain the second image containing the abnormality using a PET scanner within a short amount of time after obtaining the first image.
21. An imaging system in accordance with Claim 20 wherein to determine the relative metabolic activity the controller is configured to determine a relative metabolic activity is based in part on the anatomical size of the first region of interest.

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